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		25×
	22 August 1966_	25X
	22 Mugust 1966	25X
		25X
		25X
	Subject: Progress Report - July 1966 Project	25X
	Gentlemen:	
	Enclosed is a copy of Progress Report	25X
	on Project for the period covered July 1966. Also included is a copy of our Financial Report for this period.	25×
	Very truly yours,	
		25X
	Encl: (1) P.R.	
		25X
	Encl: (1) P.R. (2) F.R.	25

Declass Review by NIMA / DoD

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25X1	PROGRESS REPORT
,	PROGRESS REPORT
	Period Covered: July 1966
25X1	Document No.:
	Dated: 12 August 1966
	Jacoba. 12 Magase 1900
	PRESENT STATUS
25X1	
	Manufacturing drawings have been updated with
	exception of a few electrical schematics and wiring diagrams.
25X1	
	Mechanical assembly is complete and electrical
	wiring is essentially complete with only trouble shooting left.
	Unit was shown to the customer's representative in its nearly
	completed form on June 20, 1966.
25X1	
	Fabrication of parts is complete with exception
	of a few items required for the high intensity light sources.
	Electrical assembly is approximately 50% complete.
	PROBLEM AREAS
0EV4	
25X1	
	It is understood from conversations with the
25X1	customer's representative that there are certain characteristics
20/\ I	which he believes are objectionable. One of these is the noise level of the instrument during operation in various
	modes. This noise is objectionable because it is loud relative
	to the "Approved Fathelephe 2002/02/120 Legia-RDP 2007/47400390003900394to inter-

pretation cubicle. There appears to be three sources of noise;

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the light source, the film drive motors, and the nylon film rollers. With respect to the light source, there is a source of 60 cycle hum which is undoubtedly associated with the SCR dimming circuit. This hum is present only when there is a particular sequence of control operation. It may be eliminated by operating the "loading switch" momentarily. The cause of this trouble is, at present, still a mystery, however, there is no reason we can now see why this noise could not be eliminated with electrical noise filters, or perhaps shielding of sensitive leads. The cause of this noise is currently being investigated.

In regard to motor noise, the writer sees no ready solution to the problem. The motors used were selected because of their small size to fit within the available instrument envelope. It is doubted whether vibration isolation or acoustical insulation would appreciably affect the noise level.

with respect to the nylon rollers, the problem exists only because in certain modes of power assisted or automatic slew the linear velocity of the film over the rollers is rather high and causes them to chatter or "sing" due to vibration of the roller on its shaft. This we are sure can be remedied, but there is a question as to whether this can be done without exceeding the target cost of the contract. Our latest cost to complete estimate shows that we shall spend funds to the target cost level. There is not much allowance left for changes or improvements. This necessitates close scrutiny of any further changes or improvements deemed desirable either

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Another characteristic \_\_\_\_\_\_ deemed worthy of mention by the customer's representative was the variation in film speed during slew, and in particular the laboriously slow speed obtained when approaching the end of a 500 foot spool of

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25X1

9 inch film. The variation in speed is a characteristic of the type of drive employed. The overall speed of transport could be increased somewhat by the replacement of the motors with those wound for higher power operation. Motors like these have been ordered just in case it is found necessary to make this improvement.

25X1

25X1

A problem has arisen in the tracking of the film during transport. This we feel is due to the more complicated path the film must travel. It is believed that more careful alignment of the roller axes will remedy this.

## PROJECTED WORK FOR AUGUST

25X1

Changes to reduce noise and increase 25X1 slew speed will be investigated, an estimate of their cost of incorporation made, and a decision on whether they can be done within the budget of the present contract arrived at.

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5X1		
	Assuming that there is a relatively efficient	
	recovery of our manufacturing section from the sudden loss of the	
5X1	cognizant product engineer, will be finished and made	
	ready for final inspection.	
5X1		•
	The sequence of operations will be	25X1
	practically the same as that with an interval of ap-	25X1
	proximately 3 weeks.	
	SUMMARY OF CORRESPONDENCE	_
5X1	Meeting 20 July 1966 between	25X1
5X1	Customer's technical representative).	_
		25X1
	The nearly assembled instrument was displayed.	20/(1
	Customer's representative had the following comments.	
	1) He found the noise of the nylon guide rollers ob-	
	jectionable during rapid film transport. This is the same type	
	of noise that he recently objected to in-	25X1
	dicated that this would be investigated.	
	2) Customer's representative asked if the noise of	05)//
	raising and lowering the platen could be reduced in-	25X1
	dicated that this would be difficult to do.	
	3) Customer's representative would like to have pro-	
	tective covers over the platen raising solenoids similar to those	
5X1	TOTAL STORE OF THE PIECES THE PIE	

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	Meeting at customer's facility		
(custon	meeting at customer's ractify aren's representative) on 21 July 1966.		
•	o depleasementative, on 21 bully 1906.		
	The writer visited the customer's facility		
to inve	estigate problems customer's representative was having		
	The left front handwheel was found to be sticking on its		
shaft a	and was not free to rotate in the disengaged position. This		
	ckly remedied by removing the handwheel and cleaning the		
	and bushing. A minor interference restricting the proper		
operati	on of the shade was also corrected.		
	In addition to these obvious problems, customer's rep-		
resenta	tive expressed concern over:		
	1) Noise level during operation due to lamp motors		
	<ol> <li>Noise level during operation due to lamp, motors,</li> </ol>		

2) Variation of film speed during slew, and in particular the slow slew speed when approaching the end of a 500 foot spool of film.

A more detailed description of these problems is given above under Problem Areas.

## Financial Status

A financial report for the month of July is enclosed.

